

The Rosanova Method

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**Your vision the way you want it:
the Role of High Tech Intraocular Lenses (IOLs)**

Various intraocular lenses to decrease dependence on glasses and correct astigmatism have been in use and regularly updated for the past 5-15 years.

However, it has only been within the past 3-5 years that the latest technology, diagnostic instruments, programs/formulas, planning and techniques have made the selection and implantation of these IOLs much more accurate and reproducible than previously. For you, this means clearer, more natural and optimized vision and fewer potential side effects. No longer does cataract surgery only restore your distance vision with the aide of glasses or contact lenses. Today, we are able to enhance your vision to provide you with a full range of vision and/or eliminate any astigmatism without the dependence of glasses or contact lenses.

The femtosecond laser, diagnostic instruments, lens power calculation formulas, image guided surgery planning tools and Dr Rosanova's exceptional, unique experience in this arena make these lenses more viable than ever before.



Far AND Near vision without depending on glasses

Using these Full Range of Vision intraocular lenses, we can restore your ability to focus on things at varying distances including the close vision needed for tasks such as reading, cooking, threading a needle or tying a fishing lure. Even those with astigmatism can benefit from this technology. Thanks to the unique combination of Dr. Rosanova's expertise and skill, premium multifocal/astigmatism lenses and the advanced technologies of Verion and LenSx, our patients are enjoying outstanding results and regaining their youthful vision!

Far OR Near vision without depending on glasses

Although standard cataract surgery with a far (or near) focus IOL may improve a patient's distance vision, the majority of patients will still depend on bifocals due to astigmatism. Astigmatism is when the cornea is shaped more like a football than a basketball. This oblong shape of the cornea distorts and blurs your vision. It cannot be corrected with the standard IOL. However, a "toric" IOL is a cylindrical lens that focuses the light despite the cornea being football shaped.

Laser cuts can also be made in the cornea to compensate for this shape. However, these cuts heal differently from person to person. Thus the correction may be less than the full amount needed. The advantage of this toric IOL is that the amount of correction is known and fixed. So, when indicated and possible to use, there are distinct advantages to this IOL.

If you don't fix your astigmatism, images may be brighter and a little clearer, but will be blurrier than if you fixed it. The finest focus is provided by a toric IOL in the eye.



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The Rosanova Method

for

Bladeless, Image & Computer Guided Laser Pre-Treatment

with

Cataract Surgery



**Rosanova Eye:
Center for
Custom Cataract Surgery**

The Rosanova Method

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Within our practice, Dr. Rosanova has established the Rosanova Eye: Center for Custom Cataract Surgery. To enable you to reach your goal of reducing or eliminating your need for glasses after surgery.

Dr. Rosanova has developed his own protocol using the latest technology, diagnostic instruments, programs/formulas, planning, and techniques.

If your goal is to achieve the best possible vision without a dependency on bifocals following the surgery, please know that Dr. Rosanova has 5+ years of exceptional laser cataract experience, a particular interest and focus on this area and a passion to make your goal a reality.

In August 2010, the U.S. developed and FDA approved, LenSx laser system was the lynchpin of a revolution in cataract surgery. It served as an impetus for the development of other new technologies, software, formulas, approaches and techniques. Femtosecond laser technology has been used for other eye surgeries since 2001. Dr Rosanova uses its image-guided control and unmatched precision to decrease the amount of collateral (ultrasound and fluidic) damage within the eye, to shorten, standardize and optimize the surgical procedure. With unprecedented accuracy and predictability, without a knife, with no pain while watching a kaliedescope of colors, in a matter of 30-40 seconds, extremely precise incisions are made, the cataract is opened and sliced into 40-50 pieces for easier removal and low levels of astigmatism are corrected. In a fraction of the time it would take by hand in the operating room, this all happens just before entering the operating room.

Like a Stradivarius Violin or a Steinway Concert Grand Piano, the benefit of this technology varies by the artist performing with it. The laser is remarkable, but the laser alone will not produce the results you desire. "With any type of cataract surgery, your outcome depends in large part on the skill and experience of your eye surgeon," American Academy of Ophthalmology website.

The maximum benefit of this remarkable laser is only realized by continuously mastering and integrating the constant wave of new technology, diagnostic instruments, the latest formulas, algorithms, image-guided systems, techniques & lenses. For our patients, Dr. Rosanova's exceptional experience and unique orchestration of all of this is what consistently produces the optimal result that you want.

Based on Dr. Rosanova's 25+ years of experience performing thousands of cataract surgeries and his exceptional 5+ years experience working with the LenSx: this technology is uniquely suited to patients with:

- 1) Floppy Iris Syndrome, an irreversible condition caused by: a) alpha blockers used in treating hypertension and prostate disease. You can have this even if you have not had prostate surgery. b) Pseudo Exfoliation Syndrome, an inherited disorder found in people of Northern European Ancestry.
- 2) Very dense or "hard like a rock" cataracts.
- 3) Certain diseases or degenerations of the cornea including Fuch's dystrophy of the cornea. This includes certain advanced aging changes that some people have.
- 4) Previous Vitreous or Retinal surgery. Systemic diseases that compromise the small vessels in the retina such as diabetes and hypertension.

IF you have any of these conditions, Dr Rosanova will discuss with you the specific implications and benefits in relationship to your planned cataract surgery.

There are certain benefits just from using the femtosecond laser - even before Dr Rosanova's protocol integrates the computer controlled, image guided system, the latest diagnostic technology, formulas, algorithms and hi-tech intraocular lenses.

Just before entering the operating room (O.R.), it makes the various incisions and openings more accurately and consistently than is possible by hand. It makes incisions to relieve small amounts of astigmatism much more accurately and consistently than by hand. It makes a precisely positioned and perfectly round opening in the front of the cataract which helps the new lens (IOL) stay in the best position.

Because it precisely chops up the cataract into 40-50 pieces, the amount of potentially damaging ultrasonic energy used during the surgery is reduced an average 96.3%. During manual surgery, this excess energy can cause unintended collateral damage to the cornea and the retina. Studies have shown a 100% reduction in over 80% of cases.

Before even entering the operating room, half of the steps are already done. Having less to do in the O.R. makes the time your eye is operated on significantly shorter. Shorter operating time means less unintended, potential collateral damage, especially from the constant inflow of fluids that are necessary during the surgery.

The 5-6 minute laser experience is very comfortable. You are not enclosed in anything. Only the arm of the laser holding a contact lens is over you. The individual, plastic contact lens holder, comes down and gently pushes on your eye. The pressure is less than what you might experience when you rub your eye. Numbing drops keep you from feeling the contact lens.

Dr Rosanova reviews the treatment plan, laser setting and the images the laser makes of your eye. He matches those images to the ones made during the measurement session in the office. After a few minutes, everything is set, he steps on the foot pedal and the computer performs the meticulously formulated, painless treatment plan. It takes an average of 30-40 seconds. Many people describe what looks like a colorful kaleidoscope. We then go to the operating room.

In the operating room, the thorough planning, advanced technology, his Cataract Surgery Fellowship training and exceptional experience all come into play. He removes the pieces of the old lens (cataract), puts in a new, comprehensively calculated lens (IOL) and positions it exactly where it should be. Anesthesia personnel are present to ensure your safety and comfort.

Please see our companion brochure, "Your cataract procedure should be tailored to your eyes." This explains the unique, definitive and essential role of the Verion Image Guided System, from planning, to laser, to surgery.

If you would like to discuss anything in this brochure or need more information, Dr Rosanova will be happy to talk with you, to answer all your questions!

What our patients are saying

"My post-surgical care and follow up visits were thorough and comforting because I knew that I was working with a Doctor who showed an interest in his patients and wanted to make sure that the results were perfect and the patient was satisfied with his services. My distance and near vision are now normal and I love the freedom of life without glasses." T.V.

"Because of my active lifestyle, heavy computer use and desire to drive with no restrictions, I opted for the full-range-of-vision lenses. Yes the procedure is expensive (and not covered by insurance). However, I believe the state-of-the-art procedure that Dr Rosanova uses with such skill is an ideal solution for someone whose daily routine included intensive visual work." J.F.

"Since having you perform cataract surgery last fall my eyesight has amazed me and made my friends jealous. I am very glad I selected you for my surgeon, chose to have you do the most advanced surgery available to me and selected the multifocus lens. Without glasses both my distance vision and near vision are excellent. I also want to compliment you and your staff for your professional and caring attitudes for making the experience comfortable and the result excellent. J.H.

"The results have been nothing short of amazing!!My sight is now better than 20/20 The care and expertise of Dr Rosanova and his entire staff has been fantastic. Previously I had surgery on my other eye .not done by Dr Rosanova .The difference between that surgery and the one done by Dr Rosanova is unbelievable. I would highly recommend Dr Rosanova You will be in very competent and professional care by him and his entire staff during the surgery and also during your follow-up care." L.L.

"He was a perfectionist and very thorough in his care for me and my eyes from my first appointment thru to my final follow up appointment, ensuring that all was exactly as it was supposed to be. Dr Rosanova took care to ensure my safety and comfort each step of the way throughout each surgery, .he took every precaution and worked meticulously to ensure the best results ..My vision is now 20/20, and I am happy to not have to wear glasses for any reason for the first time in 60 years." R.K.

"I feel very fortunate to have this new procedure available to me when I needed it and to have a surgeon who was skilled and well versed in this new innovative surgery .I can't thank you enough for giving me the best eyesight I have ever had, without wearing corrective lenses or glasses. I wouldn't hesitate to recommend you to any of my friends or member of my family " P.E

"The results were truly amazing .Not only was the technique amazing, but also Dr Rosanova's approach to the surgery. While he will acknowledge that perfection cannot be guaranteed, that is precisely what he strives for . My experience working with Dr Rosanova and his staff has been most satisfying. .I wholeheartedly recommend this surgeon and the highly accurate technology he has adopted in his practice." R.H.

"My sister and I would like to thank you for giving us the vision that we have never had before. Both of us have worn glasses most of our lives, but after having you do your magical surgery on us, we can see perfectly .cannot believe what a difference your surgery has made in our lives a big difference in both of our daily lives .We both highly recommend your surgery to anyone who has cataracts and needs them removed." M.M. & S.L.

"I am very happy with the State of the Art laser procedure that you performed on both my eyes .My vision is much better and I no longer wear glasses. The procedure was painless and very quick. The recovery did not take long, and did not negatively impact my lifestyle. I would have done this sooner had I known how wonderful the results would be. Thank you for the extreme care you take to make sure that your patients have the best possible success rate ." T.G.

"I had the laser surgery first on the left eye, but was unable to have the same on the right (eye). The real difference came after the surgery .All in all, I would recommend laser surgery to anyone over the traditional." L.G.

"Dr Rosanova helped alleviate the anxiety I was feeling by thoroughly explaining the procedure. His confidence, expertise and relaxed manner set me at ease, as did his knowledgeable, professional staff. .After the procedure, I was impressed with Dr Rosanova's thorough follow-up care. Best of all, with the toric lens .I no longer have to wear glasses- my vision is crisp and clear. I would recommend bladeless laser cataract removal surgery with Dr Rosanova to anyone." C.P.